

Version Status Interaction Descriptions

#	Interaction Name	Type	Description
17	Sending to Partially Failed	NPAC SMS Internal	NPAC SMS automatically sets a Subscription Version from sending to partial failure after one or more, but not all, of the Local SMSs fail the Subscription Version activation after the tunable retry period expires.
18	Sending to Old	NPAC SMS Internal	NPAC SMS automatically sets a sending Subscription Version to old after a disconnect or "porting to original" port to all Local SMS successfully completes.
19	Sending to Active	NPAC SMS Internal	<ol style="list-style-type: none"> 1. NPAC SMS automatically sets a sending Subscription Version to active after the Subscription Version activation is successful in all of the Local SMSs. 2. NPAC SMS automatically sets a sending Subscription Version to active after the Subscription Version modification is successfully broadcast to any of the Local SMSs.
20	Active to Sending	NPAC Administrative Interface – NPAC Personnel	User disconnects an active Subscription Version and does not supply an effective release date, or User modifies an active Subscription Version.
		SOA to NPAC SMS Interface to NPAC SOA Low-tech Interface - Current Service Provider	User sends a disconnect request for an active Subscription Version and does not supply an effective release date, or User modifies an active Subscription Version.
21	Active to Old	NPAC SMS Internal	NPAC SMS automatically sets the currently active Subscription Version to old once a Subscription Version activation or disconnect is successful in all Local SMSs.
22	Disconnect Pending to Active	NPAC Administrative Interface – NPAC Personnel	User cancels a Subscription Version with a disconnect pending status.
		SOA to NPAC SMS Interface and NPAC SOA Low-tech Interface – New Service Provider	User sends a cancellation request for a disconnect pending Subscription Version.
23	Active to Disconnect Pending	NPAC Administrative Interface - NPAC Personnel	User disconnects an active Subscription Version and supplies a future effective release date.

Version Status Interaction Descriptions			
#	Interaction Name	Type	Description
		SOA to NPAC SMS Interface and NPAC SOA Low-tech Interface- Current Service Provider	User sends a disconnect request for an active Subscription Version and supplies a future effective release date.

Table 5-9 Version Status Interaction Descriptions

R5-1.1 Subscription Version Statuses

NPAC SMS Subscription Version instances shall at any given time have one of the following statuses:

- Active - Version is currently active in the network.

NOTE: There may be another pre-active version in the system that will eventually supersede this version. Examples: 1) Pending version for the active subscription exists 2) Sending version for the active subscription exists.

- Canceled - A pending, conflict, or disconnect pending version was canceled prior to activation in the network.
- Cancel Pending - Version is awaiting cancellation acknowledgment from the concurring Service Providers, at which time the version will be set to canceled.
- Conflict - Version is in conflict (i.e., a dispute exists between the two Service Providers), awaiting resolution.
- Disconnect Pending - Version is awaiting the effective release date, at which time the version will be set to sending and the disconnect request will be sent to all Local SMSs.
- Failed - Version failed activation in ALL of the Local SMSs in the network.
- Old - Version was previously active in the network and either was superseded by another active version or was disconnected.
- Partial Failure - Version failed activation in one or more, but not all, Local SMSs in the network.
- Pending - Version is either pending activation (approval had been received from both Service Providers) or pending creation/approval from one or the other Service Provider.
- Sending - Version is currently being sent to all of the Local SMSs in the network.

R5-1.2

(Duplicate - refer to R5-20.3)

(Duplicate - refer to R5-30.2)

(Duplicate - refer to R5-53)

(Duplicate - refer to R5-54)

(Moved - refer to R5-54.2)

R5-2.1 Old Subscription Retention - Tunable Parameter

NPAC SMS shall provide an Old Subscription Retention tunable parameter which is defined as the length of time that old Subscription Versions shall be retained and accessible through a query request.

R5-2.2 Old Subscription Retention - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Old Subscription Retention tunable.

R5-2.3 Old Subscription Retention - Tunable Parameter Default

NPAC SMS shall default the Old Subscription Retention tunable parameter to 18 calendar months.

R5-3.1 Cancel-Pending Subscription Retention - Tunable Parameter

NPAC SMS shall provide a Cancel-Pending Subscription Retention tunable parameter which is defined as the length of time that canceled Subscription Versions with a pre-cancellation status of pending shall be retained and accessible through a query request.

R5-3.2 Cancel-Pending Subscription Retention - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Cancel-Pending Subscription Retention tunable parameter.

R5-3.3 Cancel-Pending Subscription Retention - Tunable Parameter Default

NPAC SMS shall default the Cancel-Pending Subscription Retention tunable parameter to 90 calendar days.

R5-3.4 Cancel-Conflict Subscription Retention - Tunable Parameter

NPAC SMS shall provide a Cancel-Conflict Subscription Retention tunable parameter which is defined as the length of time that canceled Subscription Versions with a pre-cancellation status of conflict shall be retained and accessible through a query request.

R5-3.5 Cancel-Conflict Subscription Retention - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Cancel-Conflict Subscription Retention tunable parameter.

R5-3.6 Cancel-Conflict Subscription Retention - Tunable Parameter Default

NPAC SMS shall default the Cancel-Conflict Subscription Retention tunable parameter to 30 calendar days.

R5-3.7

DELETE

R5-3.8

DELETE

R5-3.9

DELETE

R5-3.10 Cancel-Disconnect Pending Retention - Tunable Parameter

NPAC SMS shall provide a Cancel-Disconnect Pending Retention tunable parameter which is defined as the length of time that canceled Subscription Versions with a pre-cancellation status of disconnect pending shall be retained and accessible through a query request.

R5-3.11 Cancel-Disconnect Pending Retention - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Cancel-Disconnect Pending Retention tunable parameter.

R5-3.12 Cancel-Disconnect Pending Retention - Tunable Parameter Default

NPAC SMS shall default the Cancel-Disconnect Pending Retention tunable parameter to 90 calendar days.

RR5-1.1 Pending Subscription Retention - Tunable Parameter

NPAC SMS shall provide a Pending Subscription Retention tunable parameter, which is defined as the length of time that a pending Subscription Version shall remain in the system prior to cancellation.

RR5-1.2 Pending Subscription Retention - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Pending Subscription Retention tunable parameter.

RR5-1.3 Pending Subscription Retention - Tunable Parameter Default

NPAC SMS shall default the Pending Subscription Retention tunable parameter to 90 calendar days.

RR5-1.4 Pending Subscription Retention - Tunable Parameter Expiration

NPAC SMS shall cancel a Subscription Version by setting the subscription version to cancel after a pending Subscription Version has existed in the system for a Pending Subscription Retention number of calendar days subsequent to new Service Provider Due Date.

R5-4

(Duplicate - Refer to RN5-1)

R5-5 Subscription Versions Creation for TN Ranges

NPAC SMS shall create individual Subscription Versions when a Subscription Version creation request is received for a TN range.

R5-6 Subscription Administration Transaction Logging

NPAC SMS shall log all subscription administration transactions. The log entries shall include:

- Activity Type: create, modify, activate, query, all status types, and all acknowledgments.
- Service Provider ID
- Initial Version Status
- New Version Status (if applicable)
- User ID and/or Login
- Local Number Portability Type
- Date
- Time
- Ported Telephone Number
- Status Flag - successful or failed
- Subscription Version ID (when assigned)

5.1.2 Subscription Administration Requirements

5.1.2.1 User Functionality

Authorized users can invoke the following functionality in the NPAC SMS to administer subscription data:

R5-7 Creating a Subscription Version

NPAC SMS shall allow NPAC personnel and the SOA to NPAC SMS interface to create a Subscription Version.

R5-8.1 Modifying a Subscription Version

NPAC SMS shall allow NPAC personnel and the SOA to NPAC SMS interface to modify a Subscription Version.

R5-8.2

(Duplicate - refer to R5-25)

R5-9 Activating a Subscription version

NPAC SMS shall allow NPAC personnel and the SOA to NPAC SMS interface to activate a Subscription Version.

RN5-9

DELETE

R5-10.1 Setting a Subscription Version to Conflict

NPAC SMS shall allow NPAC personnel to set a Subscription Version to conflict.

R5-10.2 Subscription Version Conflict Status Rule

NPAC SMS shall prohibit a Subscription Version in conflict from being activated.

R5-11 Disconnecting a Subscription Version

NPAC SMS shall allow NPAC personnel and the SOA to NPAC SMS interface to disconnect a Subscription Version.

R5-12 Canceling a Subscription Version

NPAC SMS shall allow NPAC personnel and the SOA to NPAC SMS interface to cancel a Subscription Version.

R5-13 Querying a Subscription Version

NPAC SMS shall allow NPAC personnel, Local SMS/ SOA to NPAC SMS interface to query for a Subscription Version.

5.1.2.2 System Functionality

This section describes NPAC SMS functionality required to support NPAC personnel and SOA to NPAC SMS interface user requests defined in the above section.

Additionally, NPAC SMS functionality will perform operations which are not invoked by a direct user request. Some examples of this are: monitor a Subscription Version to determine whether the old and the new facilities-based Service Providers have authorized the transfer of service for a ported number, issue appropriate notifications to Service Providers, and change the status of a Subscription Version based on tunable parameters.

5.1.2.2.1 Subscription Version Creation

This section provides the requirements for the Subscription Version Create functionality, which is executed upon the user requesting to create a Subscription Version.

RR5-3 Create Subscription Version - Notify NPA-NXX First Usage

NPAC SMS shall notify all accepting Local SMSs and SOAs of the NPA-NXX, effective date, and owning Service Provider when an NPA-NXX is being ported for the first time immediately after creation validation of a Subscription Version.

5.1.2.2.1.1 Subscription Version Creation - Inter-Service Provider Ports

This section provides the Subscription Version Creation requirements for performing an Inter-Service Provider port of a TN. There are two types of Inter-Service Provider ports: A port of a TN to a new Service Provider from the Old, or a "porting to original" port. A "porting to original" port implies that all porting data will be removed from

the Local SMSs and the TN will revert to the default routing, which ultimately results in the TN returning to the original "donor" Service Provider.

The primary differences in functionality between these two types of Inter-Service Provider ports is that for a "porting to original" port, the routing data is not supplied and upon activation, a delete request is broadcast to the Local SMSs instead of a create request.

Both port types of Inter-Service Provider ports require authorization for the transfer of service from the new Service Provider.

R5-14 Create Subscription Version - Old Service Provider Input Data

NPAC SMS shall accept the following data from the NPAC personnel or old Service Provider upon Subscription Version creation for an Inter-Service Provider port:

- Local Number Portability Type -Port Type.
- Ported Telephone Number(s) - this entry can be a single TN or a continuous range of TNs that identifies a subscription or a group of Subscription Versions that share the same attributes.
- Due Date - date on which transfer of service from old facilities-based Service Provider to new facilities-based Service Provider is initially planned to occur.
- New facilities-based Service Provider ID - the identifier of the new facilities-based Service Provider.
- Old facilities-based Service Provider ID - the identifier of the old facilities-based Service Provider.
- Authorization from old facilities-based Service Provider - indication that the transfer of service is authorized by the ported-from Service Provider.
- Status Change Cause Code - indication of reason for denial of authorized by the Old Service Provider.

R5-15.1 Create "Inter-Service Provider Port" Subscription Version - New Service Provider Input Data

NPAC SMS shall require the following data from NPAC personnel or the new Service Provider upon Subscription Version creation for an Inter-Service Provider port when NOT "porting to original":

- Local Number Portability Type - Port Type. This field must be set to "LSPP" for Inter-Service Provider ports.
- Ported Telephone Number(s) - this entry can be a single TN or a continuous range of TNs that identifies a subscription or a group of Subscription Versions that share the same attributes.
- Due Date - date on which transfer of service from old facilities-based Service Provider to new facilities-based Service Provider is initially planned to occur.
- New Facilities-based Service Provider ID - the identifier of the new facilities-based Service Provider.
- Old Facilities-based Service Provider ID - the identifier of the old facilities-based Service Provider.
- Location Routing Number (LRN) - the identifier of the ported-to switch.
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN
- Porting to Original - flag indicating whether or not this is a "porting to original" port. This flag must be set to "FALSE" for this type of Inter-Service Provider port.

R5-15.2 Create "porting to original" Subscription Version - New Service Provider Input Data

NPAC SMS shall require the following data from NPAC personnel or the new Service Provider upon Subscription Version creation for an Inter-Service Provider "porting to original" port:

- Local Number Portability Type - Port Type. This field must be set to "LSPP" for "porting to original" ports.
- Ported Telephone Number(s) - this entry can be a single TN or a continuous range of TNs that identifies a subscription or a group of Subscription Versions that share the same attributes.
- Due Date - date on which transfer of service from old facilities-based Service Provider to new facilities-based Service Provider is initially planned to occur.
- New Facilities-based Service Provider ID - the identifier of the new facilities-based Service Provider.
- Old Facilities-based Service Provider ID - the identifier of the old facilities-based Service Provider.
- Porting to original - flag indicating whether or not this is a "porting to original" port. This flag must be set to "TRUE" for "porting to original" port.

R5-16 Create Subscription Version - New Service Provider Optional input data

NPAC SMS shall accept the following optional fields from NPAC personnel or the new Service Provider upon Subscription Version creation for an Inter-Service Provider port:

- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-17.1

(Duplicate - Refer to R5-18.7 and R5-20.1)

R5-17.2

(Duplicate - Refer to R5-18.8 and R5-20.1)

R5-18.1 Create Subscription Version - Field-level Data Validation

NPAC SMS shall perform field-level data validations to ensure that the value formats for the following input data, if supplied, is valid according to the formats specified in Table 3-5 upon Subscription Version creation for an Inter-Service Provider port:

- LNP Type
- Ported TN(s)
- Old Service Provider Due Date
- New Service Provider Due Date
- Old Service Provider ID
- New Service Provider ID
- Authorization from old facilities-based Service Provider
- Status Change Cause Code
- LRN
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN

- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN
- Porting to Original
- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-18.2 Create Subscription Version - Due Date Consistency Validation

NPAC SMS shall verify the old and new Service Provider due dates are the same upon initial Subscription Version creation for an Inter-Service Provider port.

R5-18.3 Create Subscription Version - Due Date Validation

NPAC SMS shall verify that the due date is the current or a future date upon Subscription Version creation for an Inter-Service Provider port.

R5-18.4 Create Subscription Version - Ported TN NPA-NXX Validation

NPAC SMS shall verify that the NPA-NXX to be ported exists as an NPA-NXX in the NPAC SMS system upon Subscription Version creation for an Inter-Service Provider port.

R5-18.5 Create Subscription Version - Service Provider ID Validation

NPAC SMS shall verify that the old and new Service Provider IDs exist in the NPAC SMS system upon Subscription Version creation for an Inter-Service Provider port.

R5-18.6 Create Subscription Version - LRN Validation

NPAC SMS shall verify that an input LRN is associated with the new Service Provider in the NPAC SMS system upon Subscription Version creation for an Inter-Service Provider port.

R5-18.7 Create Subscription Version - Originating Service Provider Validation

NPAC SMS shall verify that the originating user is identified as the new or old Service Provider on the incoming Subscription Version upon Subscription Version creation for an Inter-Service Provider port.

R5-18.8 Create Subscription Version - Duplicate Authorization Validation

NPAC SMS shall verify that authorization for transfer of service for a given Service Provider does not already exist when a Service Provider creates a Subscription Version for an Inter-Service Provider port.

R5-18.9 Create Subscription Version - Service Provider ID Validation

NPAC SMS shall verify that the incoming New and Old Service Provider IDs match the IDs in the current pending version, if one exists, upon Subscription Version creation for an Inter-Service Provider port.

R5-18.10 Create Subscription Version - Status Change Cause Code Validation

NPAC SMS shall require and only allow the Status Change Cause Code to be set when the Old Service Provider authorization is set to false.

R5-19.1 Create Subscription Version - Old Service Provider ID Validation

NPAC SMS shall verify that the old Service Provider ID on the version being created is equal to the new Service Provider ID on the active Subscription Version, if an active version exists upon Subscription Version creation for an Inter-Service Provider port.

R5-19.2 Create Subscription Version - Old Service Provider ID Validation - No Active Subscription Version

NPAC SMS shall validate that the old Service Provider in the create message is the Service Provider to which the TN's NPA-NXX is assigned (as stored in the NPAC SMS service provider data tables) if there is currently no active Subscription Version for the TN in the NPAC SMS.

R5-20.1 Create Subscription Version - Validation Failure Notification

NPAC SMS shall send an appropriate error message to the originating NPAC personnel or SOA to NPAC SMS interface user if any of the validations fail upon Subscription Version creation for an Inter-Service Provider port.

R5-20.2 Create Subscription Version - Validation Failure - No Update

NPAC SMS shall not apply the incoming data to an existing subscription if any of the validations fail upon Subscription Version creation for an Inter-Service Provider port.

R5-20.3 Create Subscription Version - Validation Failure - No Create

NPAC SMS shall not create a new Subscription Version, if a version does not exist, if any of the validations fail upon Subscription Version creation for an Inter-Service Provider port.

R5-20.4 Create Subscription Version - Validation Success - Update Existing

NPAC SMS shall apply the incoming data to an existing Subscription Version if all validations pass upon Subscription Version creation for an Inter-Service Provider or port.

R5-20.5 Create Subscription Version - Validation Success - Create New

NPAC SMS shall create a new Subscription Version, if a version does not already exist, if all validations pass at the time of Subscription Version creation for an Inter-Service Provider port.

R5-21.1 Initial Concurrence Window - Tunable Parameter

NPAC SMS shall provide an Initial Concurrence Window tunable parameter which is defined as the number of business hours subsequent to the time the Subscription Version was initially created by which both Service Providers can authorize transfer of service if this is an Inter-Service Provider port.

R5-21.2 Initial Concurrence Window - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Initial Concurrence Window date tunable parameter.

R5-21.3 Initial Concurrence Window - Tunable Parameter Default

NPAC SMS shall default the Initial Concurrence Window date tunable parameter to 9 business hours.

R5-21.4

(Duplicate - Refer to R5-21.1)

R5-21.5

(Duplicate - Refer to R5-21.1)

R5-21.6 Create Subscription Version - Set to Pending

NPAC SMS shall set a Subscription Version to pending upon successful subscription creation and the Old Service Provider has authorized transfer of service if this is an Old Service Provider create request for an Inter-Service Provider port.

R5-21.7 Create Subscription Version - Notify User Success

NPAC SMS shall notify the old and new Service Providers when a Subscription Version is set to pending upon successful subscription creation for an Inter-Service Provider port.

RR5-2.1 Create Subscription Version - Set to Conflict

NPAC SMS shall set a Subscription Version directly to conflict and set the cause code, if the Subscription Version passed validations, but this is a create request from the Old Service Provider and the Old Service Provider did not authorize transfer of service for an Inter-Service Provider port and specified a cause code.

RR5-2.2 Create Subscription Version - Set Conflict Timestamp

NPAC SMS shall set the conflict timestamp to the current time when a Subscription Version is set to conflict at the time of subscription version creation for an Inter-Service Provider port.

RR5-2.3 Create Subscription Version - Conflict Notification

NPAC SMS shall notify the Old and New Service Provider when a Subscription Version is set to conflict at the time of Subscription Version creation for an Inter-Service Provider or port.

RR5-2.4 Cause Code in Conflict Notification - Creation

NPAC SMS shall include the cause code in the conflict notification to the Old and New Service Provider when the Old Service Provider did not authorize transfer of service for an Inter-Service Provider port on creation.

R5-22 Create Subscription Version - Initial Concurrence Window Tunable Parameter Expiration

NPAC SMS shall send a notification to the Service Provider (old or new) who has not yet authorized the transfer of service, when the Initial Concurrence Window tunable parameter for a pending Subscription Version has expired.

R5-23.1 Final Concurrence Window - Tunable Parameter

NPAC SMS shall provide a Final Concurrence Window tunable parameter which is defined as the number of business hours after the concurrence request is sent by the NPAC SMS by which time both Service Providers can authorize transfer of subscription service for an Inter-Service Provider port.

R5-23.2 Final Concurrence Window Tunable - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administrator to modify the Final Concurrence Window tunable parameter.

R5-23.3 Final Concurrence Window Tunable - Tunable Parameter Default

NPAC SMS shall default the Final Concurrence Window tunable parameter to 9 business hours.

R5-23.4 New Service Provider Fails to Authorize Transfer of Service

NPAC SMS shall set the Subscription Version status to cancel when the Final Concurrence Window tunable parameter expires and a new Service Provider has not sent authorization for the transfer of service.

R5-23.5 Activation without Old Service Provider Authorization

NPAC SMS shall allow a pending Subscription Version to be activated without an old Service Provider authorization for transfer of service.

R5-23.6 Activation without Old Service Provider Authorization - Time restriction

NPAC SMS shall allow activation without Old Service Provider concurrence only after the final concurrence window timer has expired.

RR5-43 Activation with Old Service Provider Authorization

DELETE

5.1.2.2.1.2 Subscription Version Creation - Intra-Service Provider Port

This section provides the Subscription Version Creation requirements for performing an Intra-Service Provider port of a TN. An Intra-Service Provider port of a TN is when a TN is ported to a new location within the current Service Provider network (i.e., the routing data is modified, but the Service Provider remains the same). A "port to original" port for an Intra-Service Provider port should be handled by a requesting user via submission of a Disconnect request to the NPAC SMS.

RR5-4 Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Input Data

NPAC SMS shall require the following data from the NPAC personnel or the Current (New) Service Provider at the time of Subscription Version Creation for an Intra-Service Provider port:

- LNP Type - port type This field must be set to "LISP for Intra-Service Provider support.
- Ported Telephone Number(s) - this entry can be a single TN or a continuous range of TNs that identifies a subscription or group of Subscription Versions that share the same attributes.
- Due Date - date on which Intra-Service Provider port is planned to occur.
- New facilities-based Service Provider ID - current Service Provider within which the Intra-Service Provider port will occur.
- Old facilities-based Service Provider ID - current Service Provider within which the Intra-Service Provider port will occur.
- Location Routing Number (LRN) - identifier of the ported-to switch
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN

RR5-5 Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Optional Input Data

NPAC SMS shall accept the following optional fields from the NPAC personnel or the Current Service Provider upon a Subscription Version Creation for an Intra-Service Provider port:

- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

RR5-6.1 Create "Intra-Service Provider Port" Subscription Version - Field-level Data Validation

NPAC SMS shall perform field-level data validations to ensure that the value formats for the following input data, if supplied, is valid according to the formats specified in Table 3-4 upon Subscription Version creation for an Intra-Service Provider port:

- LNP Type
- Ported TN(s)
- Current Service Provider Due Date
- Old Service Provider ID
- New Service Provider ID
- LRN
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC

- CNAM SSN
- ISVM DPC
- ISVM SSN
- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

RR5-6.2 Create "Intra-Service Provider Port" Subscription Version - New and Old Service Provider ID Match

NPAC SMS shall validate that the new and old Service Provider IDs are identical to the ID of the requesting user at the time of Subscription Version creation for an Intra-Service Provider port.

RR5-6.3 Create "Intra-Service Provider Port" Subscription Version - Due Date Validation

NPAC SMS shall verify that the input due date is the current or a future due date upon Subscription Version creation for an Intra-Service Provider port.

RR5-6.4 Create "Intra-Service Provider Port" Subscription Version - Ported TN NPA-NXX Validation

NPAC SMS shall verify that the NPA-NXX for the TN to be ported exists as an NPA-NXX in the NPAC SMS system upon Subscription Version creation for an Intra-Service Provider port.

RR5-6.5 Create "Intra-Service Provider Port" Subscription Version - LRN Validation

NPAC SMS shall verify that the LRN is associated with the new Service Provider in the NPAC SMS system upon Subscription Version creation for an Intra-Service Provider port.

RR5-6.6 Create "Intra-Service Provider Port" Subscription Version - Duplicate Authorization Validation

NPAC SMS shall verify that the authorization for transfer of service for a given Service Provider does not already exist when a Service Provider creates a Subscription Version for an Intra-Service Provider port.

RR5-6.7 Create "Intra-Service Provider Port" Subscription Version - Old Service Provider ID Validation

NPAC SMS shall verify that the old Service Provider ID on the version being created is equal to the new Service Provider ID on the active Subscription Version, if an active version exists, upon Subscription Version creation for an Intra-Service Provider port.

RR5-6.8 Create "Intra-Service Provider Port" Subscription Version - No Active Version

NPAC SMS shall allow an Intra-Service Provider port to occur for a telephone number not associated with a current active version.

**RR5-6.9 Create "Intra-Service Provider Port" Subscription Version - Old Service
Provider ID Validation - No Active Subscription Version**

NPAC SMS shall validate that the old Service Provider in the create message is the Service Provider to which the TN's MPA-NXX is assigned (as stored in the NPAC SMS service provider data tables) if there is currently no active Subscription Version for the TN in the NPAC SMS.

RR5-7.1 Create "Intra-Service Provider Port" Subscription Version - Validation Failure Notification

NPAC SMS shall send an appropriate error message to the originating NPAC personnel or SOA to NPAC SMS Interface if any of the validations fail at the time of Subscription Version creation for an Intra-Service Provider port.

RR5-7.2 Create "Intra-Service Provider Port" Subscription version - Validation Failure - No Create

NPAC SMS shall not create a new Subscription Version if any of the validations fail at the time of Subscription Version creation for an Intra-Service Provider port.

RR5-8 Create "Intra-Service Provider Port" Subscription version - Set to Pending

NPAC SMS shall set a Subscription Version to pending upon successful creation of a Subscription Version for an Intra-Service Provider port.

RR5-9 Create "Intra-Service Provider Port" Subscription version - Notify User of Creation

NPAC SMS shall notify the current Service Provider when a Subscription Version is set to pending upon a successful creation of a Subscription Version for an Intra-Service Provider port.

5.1.2.2.2 Subscription Version Modification

This section provides the requirements for the Subscription Version Modification functionality, which is executed upon the user requesting modify Subscription Version.

5.1.2.2.2.1 Modification of a Pending or Conflict Subscription Version

R5-24.1

(Duplicate - refer to R5-27 and R5-28)

R5-24.2

(Duplicate - refer to R5-27 and R5-28)

R5-24.3

(Duplicate - refer to R5-27 and R5-28)

R5-25 Modify Subscription Version - Invalid Version Status Notification

NPAC SMS shall return an error to the originating NPAC personnel or SOA to NPAC SMS interface user if the version status is sending, failed, partial failure, canceled, cancel pending, old or disconnect pending upon Subscription Version modification.

R5-26 Modify Subscription Version - Version Identification

NPAC SMS shall receive the following data from the originating NPAC personnel or SOA to NPAC SMS interface user to identify a disconnect-pending, pending or conflict Subscription Version to be modified:

Ported Telephone Number (or a specified range of numbers) and status
or
Subscription Version ID

R5-27.1 Modify Subscription Version - New Service Provider Data Values

NPAC SMS shall allow the following data to be modified in a pending or conflict Subscription Version for an Inter-Service Provider or Intra-Service Provider port by the new/current Service Provider or NPAC personnel:

- Location Routing Number (LRN) - the identifier of the ported to switch.
- Due Date - date on which transfer of service from old facilities-based Service Provider to new facilities-based Service Provider is planned to occur.
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN

R5-27.2 Modify "porting to original" Subscription Version - New Service Provider Data Values

NPAC SMS shall allow the following data to be modified in a pending, or conflict Subscription Version for a "porting to original" port by the new Service Provider or NPAC personnel:

- Due Date - New Service Provider date on which "port to original" is planned to occur.

R5-27.3 Modify Subscription Version - Old Service Provider Data Values

NPAC SMS shall allow the following data to be modified in a pending or conflict Subscription Version for an Inter-Service Provider port by the old Service Provider or NPAC personnel:

- Due Date - date on which transfer of service from old facilities-based Service Provider to new Service Provider is planned to occur.
- Old Service Provider Authorization
- Status Change Cause Code

R5-27.4 Old Service Provider authorization Flag Modification to False

NPAC SMS shall allow the old Service Provider to modify the old Service Provider authorization flag to false and set the cause code. As a result the NPAC SMS will set the Subscription Version status to conflict provided the version has not previously been set into conflict by the Old Service Provider for reasons other than cancellation.

R5-27.5 Old Service Provider Conflict Restriction

(Duplicate - refer to RR5-42.1)

R5-28 Modify Subscription Version - New Service Provider Optional input data.

NPAC SMS shall accept the following optional fields from the NPAC personnel or the new Service Provider upon modification of a pending or conflict Subscription version:

- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-29.1 Modify Subscription Version - Field-level Data Validation

NPAC SMS shall perform field-level data validations to ensure that the value formats for the following input data, if supplied, is valid according to the formats specified in Table 3-4 upon Subscription Version modification.

- LNP Type
- Ported TN(s)
- Old Service Provider Due Date
- New Service Provider Due Date
- Old Service Provider Authorization
- Status Change Cause Code
- Old Service Provider ID
- New Service Provider ID
- LRN
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN
- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-29.2 Modify Subscription Version - Due Date Validation

NPAC SMS shall verify that an input due date is the current or future date upon Subscription Version modification.

R5-29.3 Modify Subscription Version - LRN Validation

NPAC SMS shall verify that an input LRN is associated with the new Service Provider in the NPAC SMS system upon Subscription Version modification.

R5-29.4 Modify Subscription Version - Originating Service Provider Validation

NPAC SMS shall verify that the originating user is identified as the new or old Service Provider on the current Subscription Version, if one exists, upon Subscription Version modification.

R5-29.5 Modify Subscription Version - Status Change Cause Code Validation

NPAC SMS shall require and only allow the Status Change Cause Code to be set when the Old Service Provider authorization is set to false.

R5-30.1 Modify Subscription Version - Validation Failure Notification

NPAC SMS shall send an error message to the originating user if the modified pending or conflict Subscription Version fails validations.

R5-30.2 Modify Subscription Version - Validation Error Processing

NPAC SMS shall leave the original version intact upon validation failure of a modified pending or conflict Subscription Version.

R5-31.1

DELETE

R5-31.2

DELETE

R5-31.3 Modify Subscription Version - Successful Modification Notification

NPAC SMS shall send an appropriate message to the old and new Service Providers upon successful modification of a Subscription Version.

R5-32

(Duplicate - refer to R5-31.3)

RR5-10.1 Modify Subscription Version - Set Conflict Timestamp

NPAC SMS shall set the conflict timestamp to the current time when a Subscription Version is set to conflict upon Subscription Version modification.

RR5-10.2 Modify Subscription Version - Conflict Notification

NPAC SMS shall notify the Old and New Service Provider when a Subscription Version is set to conflict upon Subscription Version modification.

RR5-10.3 Modify Subscription Version - Cause Code in Notification

NPAC SMS shall include the cause code for conflict in the conflict notification to the Old and New Service Provider when a Subscription Version is set to conflict upon Subscription Version modification.

RR5-10.4

DELETE

RR5-10.5

DELETE

5.1.2.2.2 Modification of an Active Subscription Version

R5-33

(Duplicate - refer to R5-35 and R5-36)

AR5-1 Active Status

"Active" status refers to Subscription Versions with either an Active or Disconnect Pending status.

RR5-11 Modify Active Subscription Version - Service Provider Owned

NPAC SMS shall allow only NPAC personnel and the current Service Provider to modify their own active Subscription Versions.

R5-34

DELETE

R5-35 Modify Active Subscription Version - Version Identification

NPAC SMS shall require the following data from NPAC personnel or SOA to NPAC SMS interface users to identify the active Subscription Version to be modified:

Ported Telephone Numbers (or a specified range of numbers) and status of Active

or

Subscription Version ID

R5-36 Modify Active Subscription Version - Input Data

NPAC SMS shall allow the following data to be modified for an active Subscription Version:

- Location Routing Number (LRN) - the identifier of the ported to switch
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN

R5-37 Active Subscription Version - New Service Provider Optional input data.

NPAC SMS shall accept the following optional fields from the new Service Provider or NPAC personnel for an active Subscription Version to be modified:

- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-38.1 Modify Active Subscription Version - Field-level Data Validation

NPAC SMS shall perform field-level data validations to ensure that the value formats for the following input data, if supplied, is valid according to the formats specified in Table 3-4 upon Subscription Version modification of an active version:

- LRN
- Class DPC
- Class SSN
- LIDB DPC
- LIDB SSN
- CNAM DPC
- CNAM SSN
- ISVM DPC
- ISVM SSN
- Billing Service Provider ID
- End-User Location - Value
- End-User Location - Type

R5-38.2 Modify Active Subscription Version - LRN Validation

NPAC SMS shall verify that an input LRN is associated with the new Service Provider in the NPAC SMS system upon Subscription Version modification of an active version.

R5-39.1 Modify Active Subscription Version - Validation Failure Notification

NPAC SMS shall send an appropriate error message to the originating user if the modified active Subscription Version fails validations.

R5-39.2 Modify Active Subscription Version - Validation Error Processing

NPAC SMS shall leave the original version intact upon validation failure of a modified active Subscription Version.

R5-40.1 Modify Active Subscription Version - Broadcast Date/Time Stamp

NPAC SMS shall record the current date and time as the broadcast date and time stamp upon initiation of broadcasting of the modified active Subscription Version.

R5-40.2

(Duplicate - refer to R5-34)

R5-40.3 Modify Active Subscription Version - Modification Success User Notification

NPAC SMS shall notify the originating user indicating successful modification of an active Subscription Version.

R5-40.4 Modify Active Subscription Version - Broadcast complete Time Stamp

NPAC SMS shall record the current date and time as the Broadcast Complete Date and Time Stamp, after one Local SMS has successfully acknowledged modifying the new Subscription Version.

R5-41 Activation Of A Modified Subscription Version

NPAC SMS shall proceed with the broadcast modified active subscription process upon successful modification of an active Subscription Version.

RR5-41.1 Broadcast Modified Active Subscription - Local SMS Identification

NPAC SMS shall determine which Local SMSs to send the Subscription Version to by identifying all Local SMSs that are accepting Subscription version data downloads for the given NPA-NXX.

RR5-41.2 Broadcast Modified Active Subscription - Send to Local SMSs

NPAC SMS shall send the modified Subscription version via the NPAC SMS to Local SMS Interface to the Local SMSs

RR5-41.3 Broadcast Modified Active Subscription - Set to Sending

NPAC SMS shall set the Subscription Version status to sending upon sending the Subscription version to the Local SMSs.

RR5-41.4 Modify Active Subscription Version - Return Status

NPAC SMS shall upon completion of the broadcast (failed or successful) return the status of the modified active subscription to it's previous state.

RR5-41.5 Modify Active Subscription Activation Retry Attempts - Tunable Parameter

NPAC SMS shall use the Subscription Activation Retry Attempts tunable parameter which defines the number of times a new Subscription Version will be sent to a Local SMS which has not acknowledged receipt of the modify request.

RR5-41.6 Modify Active Subscription Activation Retry Interval - Tunable Parameter

NPAC SMS shall use the Subscription Activation Retry Interval tunable parameter, which defines the delay between sending new Subscription Versions to a Local SMS that has not acknowledged receipt of the modify request.

RR5-41.7 Modify Active Subscription Version Failure Retry

NPAC SMS shall resend the modified Subscription Version a Subscription Activation Retry Attempts tunable parameter number of times to a Local SMS that has not acknowledged the receipt of the modification request once the Subscription Activation Retry Interval tunable parameter expires.

RR5-41.8 Modify Active Subscription Version Failure - Status Sending

NPAC SMS shall retain the status for the Subscription Version being modified as sending until the earlier of the Subscription Version retry period has expired for all Local SMSs, or until all Local SMSs have acknowledged the activation.

RR5-41.9 Modify Active Subscription Version Failure - Local SMS Identification

NPAC SMS shall notify the NPAC SMS Administrator of all Local SMSs where a modify has failed, once each Local SMS has successfully responded or failed to respond during the activation retry period.

RR5-41.10 Subscription Version Activation - Resend to Failed Local SMSs

NPAC SMS shall provide NPAC SMS personnel with the functionality to re-send modify active Subscription Version requests to all failed Local SMSs.

RR5-41.11 Modify Active Subscription Version - Failed Local SMS Notification Current Service Provider

NPAC SMS shall send a list to the Current Service Provider of all Local SMSs that failed activation when a Subscription Version modify active fails.

5.1.2.2.3 Subscription Version Conflict

This section provides the requirements for the functionality to place a Subscription Version in to conflict and remove it from conflict.

NOTE: *An old Service Provider can place a subscription version in conflict by setting the authorization flag to "False", as noted in requirement R5-27.4*

5.1.2.2.3.1 Placing a Subscription Version in Conflict

R5-42 Conflict Subscription Version - Version Identification

NPAC SMS shall require the following data from NPAC personnel to identify the Subscription Version to be placed in conflict:

Ported Telephone Number

or

Subscription Version ID

R5-43.1 Conflict Subscription Version - Invalid Status Notification

NPAC SMS shall send an error message to the NPAC personnel or old Service Provider if the version status is not pending or cancel pending upon attempting to set the Subscription Version to conflict.

R5-43.2 Conflict Subscription Version - No Cause Code Notification

NPAC SMS shall send an error message to the SOA if the cause code is not specified upon setting the Subscription Version to conflict.

RN5-11

(Duplicate - Refer to R5-42 and R5-43)

RR5-42.1 Conflict Subscription Version - Old Service Provider Number Restriction

NPAC SMS shall only allow a subscription version to be placed into conflict by the Old Service provider one time.

RR5-42.2 Conflict Subscription Version - Conflict Restriction Window

NPAC SMS shall provide a Conflict Restriction Tunable which is defined as the time on the business day prior to the New Service Provider due date that a pending Subscription Version can no longer be placed into conflict state by the old Service Provider.

AR5-2 Conflict Restriction Window Tunable due date value

The date used for the Conflict Restriction Window Tunable calculation relies on the date value specified in the New Service Provider due date.

RR5-42.3 Conflict Subscription Version - Conflict Restriction Window Tunable

NPAC SMS shall allow the NPAC SMS Administrator to modify the Conflict Restriction Window Tunable parameter.

RR5-42.4 Conflict Subscription Version - Conflict Restriction Window Tunable Default

NPAC SMS shall default the Conflict Restriction Window Tunable parameter to 12 noon.

R5-44.1 Conflict Subscription Version - Set Status to Conflict

NPAC SMS shall, upon placing a Subscription Version into conflict, set the version status to conflict.

R5-44.2 Conflict Subscription Version - Set Conflict Date and Time

NPAC SMS shall, upon placing a Subscription Version into conflict, record the current date and time as the conflict date and time stamp.

R5-44.3 Conflict Subscription Version - Successful Completion Message

NPAC SMS shall issue an appropriate message to the originating user and the Old and New Service Providers indicating successful completion of the process to place a subscription in conflict.

R5-45.1 Conflict Expiration Window - Tunable Parameter

NPAC SMS shall provide a Conflict Expiration Window tunable parameter which is defined as a number of calendar days a Subscription Version will remain in conflict prior to cancellation.

R5-45.2 Conflict Expiration Window - Tunable Parameter Default

NPAC SMS shall default the Conflict Expiration Window tunable parameter to 30 calendar days.

R5-45.3 Conflict Expiration Window - Tunable Parameter Modification

NPAC SMS shall allow the NPAC SMS Administration to modify the Conflict Expiration Window tunable parameter.

R5-45.4 Conflict Subscription Version - Set to Cancel

NPAC SMS shall set the status of the Subscription Version to cancel after a Subscription Version has been in conflict for a Conflict Expiration Window tunable parameter number of calendar days.

R5-45.5 Conflict Subscription Version - Set Cancellation Date Timestamp

NPAC SMS shall set a Subscription Version cancellation date timestamp to the current time upon setting a conflict Subscription Version to cancel.

R5-45.6 Conflict Subscription Version - Inform Service Providers of Cancel Status

NPAC SMS shall notify both Service Providers after a Subscription Version status is set to cancel from conflict.

5.1.2.2.3.2 Removing a Subscription Version from Conflict

R5-46 Conflict Resolution Subscription Version - Version Identification

NPAC SMS shall require the following data from the NPAC personnel user, new, or old Service Provider to identify the Subscription Version to be set from conflict to pending:

Ported Telephone Number
or
Subscription Version ID

R5-47 Conflict Resolution Subscription Version - Invalid Status Notification

NPAC SMS shall send an error message to the originating user if the Subscription Version status is not in conflict upon attempting to set the Subscription Version to pending.

R5-48

DELETE

R5-49.1

DELETE

R5-49.2

DELETE

R5-50.1 Conflict Resolution Subscription Version - Set Status

NPAC SMS shall set the version status to pending if the Subscription Version is in conflict upon a request from NPAC personnel, new, or old service providers to set a Subscription Version to pending.

R5-50.2 Conflict Resolution Subscription Version - Status Message

NPAC SMS shall send an appropriate message to the originating user indicating successful completion of the process to set a subscription to pending.

RR5-12.1 Conflict Resolution Subscription Version - Inform Both Service Providers of Pending Status

NPAC SMS shall inform both Service Providers when the status of a Subscription Version is set to pending for an Inter-Service Provider port.

RR5-12.2

DELETE

RR5-12.3 Conflict Resolution New Service Provider Restriction Tunable Parameter

NPAC SMS shall provide a Conflict Resolution New Service Provider Restriction tunable parameter which is defined as a number of business hours after the subscription version is put into conflict that the NPAC SMS will prevent it from being removed from conflict by the New Service Provider.